

# Absolute Mag™ PEG-COOH Magnetic Nanoparticles, Cross-linked Dextran Coated, 500 nm

Cat.No: WHM-G095

## DESCRIPTION

<b>Description</b>	Absolute Mag™ PEG-COOH Magnetic Nanoparticles, Cross-linked Dextran Coated, 300 nm (# WHM-G095) are synthesized as a core of magnetite and coated with cross-linked dextran shell. These nanoparticles are designed with PEG-COOH groups on the surface for the covalent binding of proteins, antibodies or other molecules by carbodiimide chemistry. These magnetic nanoparticles are cluster-typed shaped and can be separated with a permanent magnet. Polydispersity index: < 0.2.
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## PRODUCT INFORMATION

<b>Polydispersity Index</b>	< 0.2
<b>Particle Size</b>	500 nm
<b>Functional Group</b>	Carboxyl
<b>Surface Coating</b>	Crosslinked Dextran
<b>Concentration</b>	10 mg/mL
<b>Number of Particles</b>	6.1E+10 particles/mL
<b>Surface Group Density</b>	1 µmol/g
<b>Density</b>	2.5 g/ccm
<b>Magnetization</b>	47 Am <sup>2</sup> /kg iron (H = 80 kA/m)
<b>Saturation Magnetization</b>	>70 Am <sup>2</sup> /kg iron (H> 800 kA/m)
<b>Coercive Field H<sub>c</sub></b>	0.677 kA/m

## STORAGE AND SHIPPING

<b>Storage Buffer</b>	Suspension in water.
<b>Stability</b>	Stable in aqueous buffers pH> 4. Not stable in organic solvents, acidic solutions pH < 4.
<b>Storage</b>	Storage at 2 - 8 °C for 6 months.
<b>Shelf Life</b>	When stored as specified the product is stable for six months.